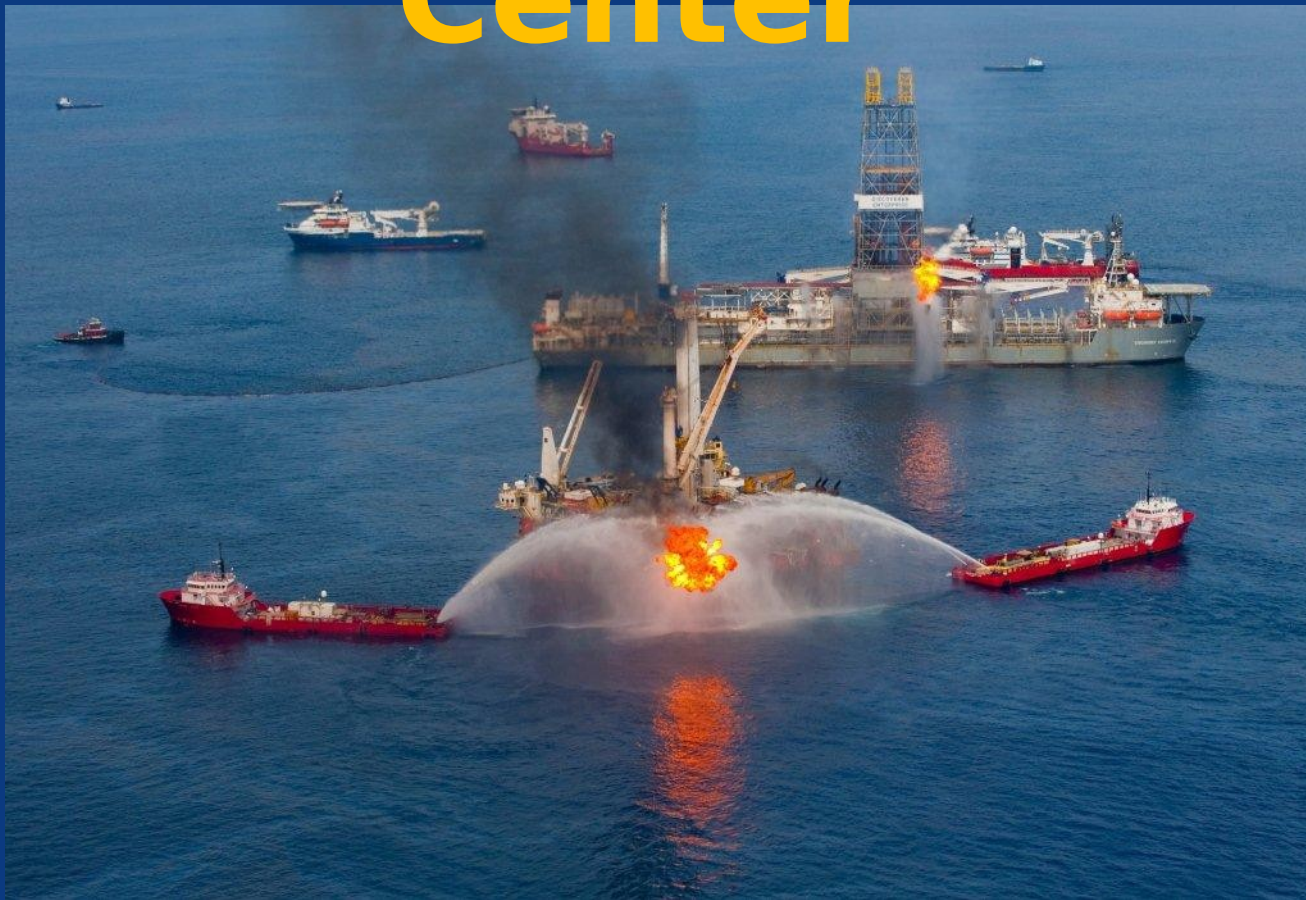




Quadruple Aim: Readiness at the Center



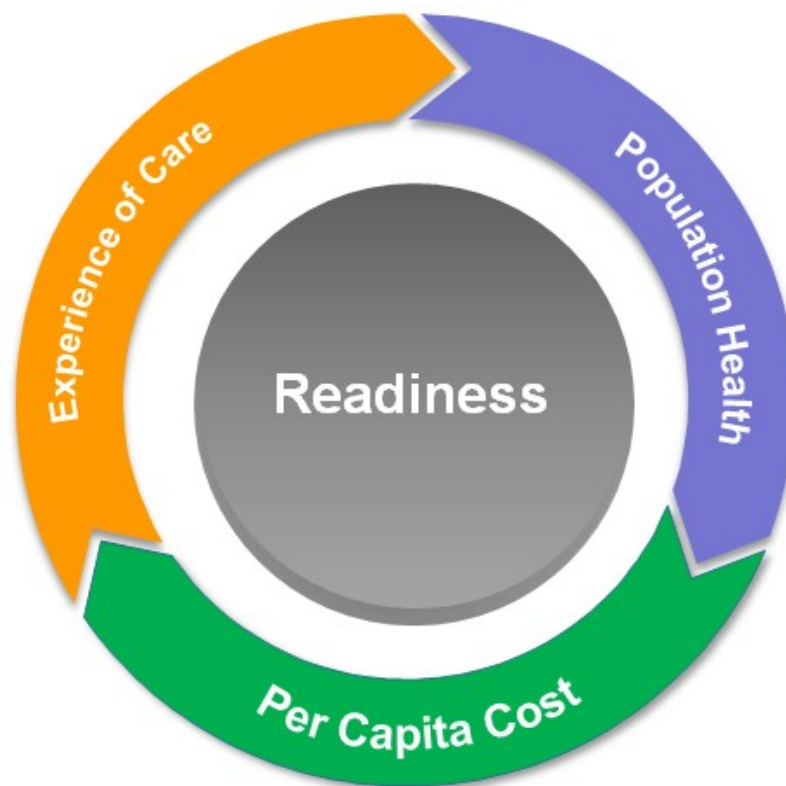
RADM Mark Tedesco, MD, MPH



U.S. COAST GUARD



Quadruple Aim: Readiness at the Center



Working Together, Achieving Success



U.S. COAST GUARD



Quadruple Aim: Readiness at the Center



U.S. COAST GUARD



Quadruple Aim: Readiness at the Center

Readiness

- “The Primary Mission
of the Coast Guard**
- **Apex of Early Support to**
 - **Interagency Coast Guard**
 - **Tactical Medicine**
 - **Operations**
 - **Medical Surveillance**
 - **Health Information**
 - **System**



U.S. COAST GUARD



Individual Medical Readiness

Clinic	Source	Specialty Exam	PHA	DLMC	Dental	Immunizations	Influen
ACADEMY COMMAND STAFF (002337)	Active	72.7%	92.3%	99.8%	90.6%	82.5%	
ACADEMY COMMAND STAFF (002337)		72.7%	92.3%	99.8%	90.6%	82.5%	
CG AIRSTA ATLANTIC CTY (000768)	Active	96.9%	92.9%	100.0%	94.8%	96.3%	
CG AIRSTA ATLANTIC CTY (000768)		96.9%	92.9%	100.0%	94.8%	96.3%	1
CG AIRSTA BORINQUEN (000012)	Active	98.6%	97.6%	100.0%	92.7%	95.9%	
CG AIRSTA BORINQUEN (000012)		98.6%	97.6%	100.0%	92.7%	95.9%	1
CG AIRSTA CAPE COD (000568)	Active	95.5%	88.2%	100.0%	95.6%	93.5%	
CG AIRSTA CAPE COD (000568)		95.5%	88.2%	100.0%	95.6%	93.5%	
CG AIRSTA CLEARWATER (000657)	Active	91.4%	82.9%	99.7%	88.2%	88.5%	
CG AIRSTA CLEARWATER (000657)		91.4%	82.9%	99.7%	88.2%	88.5%	
CG AIRSTA LOS ANGELES (000459)	Active		100.0%	93.8%	100.0%	100.0%	
CG AIRSTA LOS ANGELES (000459)			100.0%	93.8%	100.0%	100.0%	1
CG AIRSTA MIAMI (000289)	Active	90.8%	70.6%	99.8%	90.4%	93.5%	
CG AIRSTA MIAMI (000289)		90.8%	70.6%	99.8%	90.4%	93.5%	
CG AIRSTA PORT ANGELES (000638)	Active	90.4%	74.3%	100.0%	91.4%	91.2%	
CG AIRSTA PORT ANGELES (000638)		90.4%	74.3%	100.0%	91.4%	91.2%	
CG AIRSTA SACRAMENTO (000616)	Active	97.4%	90.4%	100.0%	93.0%	92.0%	
CG AIRSTA SACRAMENTO (000616)		97.4%	90.4%	100.0%	93.0%	92.0%	
CG AIRSTA SITKA (000518)	Active	78.9%	97.8%	100.0%	92.5%	94.1%	
CG AIRSTA SITKA (000518)		78.9%	97.8%	100.0%	92.5%	94.1%	
CG AIRSTA TRAVERSE CIT (000211)	Active	96.0%	91.5%	99.9%	88.5%	91.6%	
CG AIRSTA TRAVERSE CIT (000211)		96.0%	91.5%	99.9%	88.5%	91.6%	
CG AVTRACEN MOBILE (000002)	Active	77.5%	81.5%	99.9%	83.4%	86.6%	
CG AVTRACEN MOBILE (000002)		77.5%	81.5%	99.9%	83.4%	86.6%	

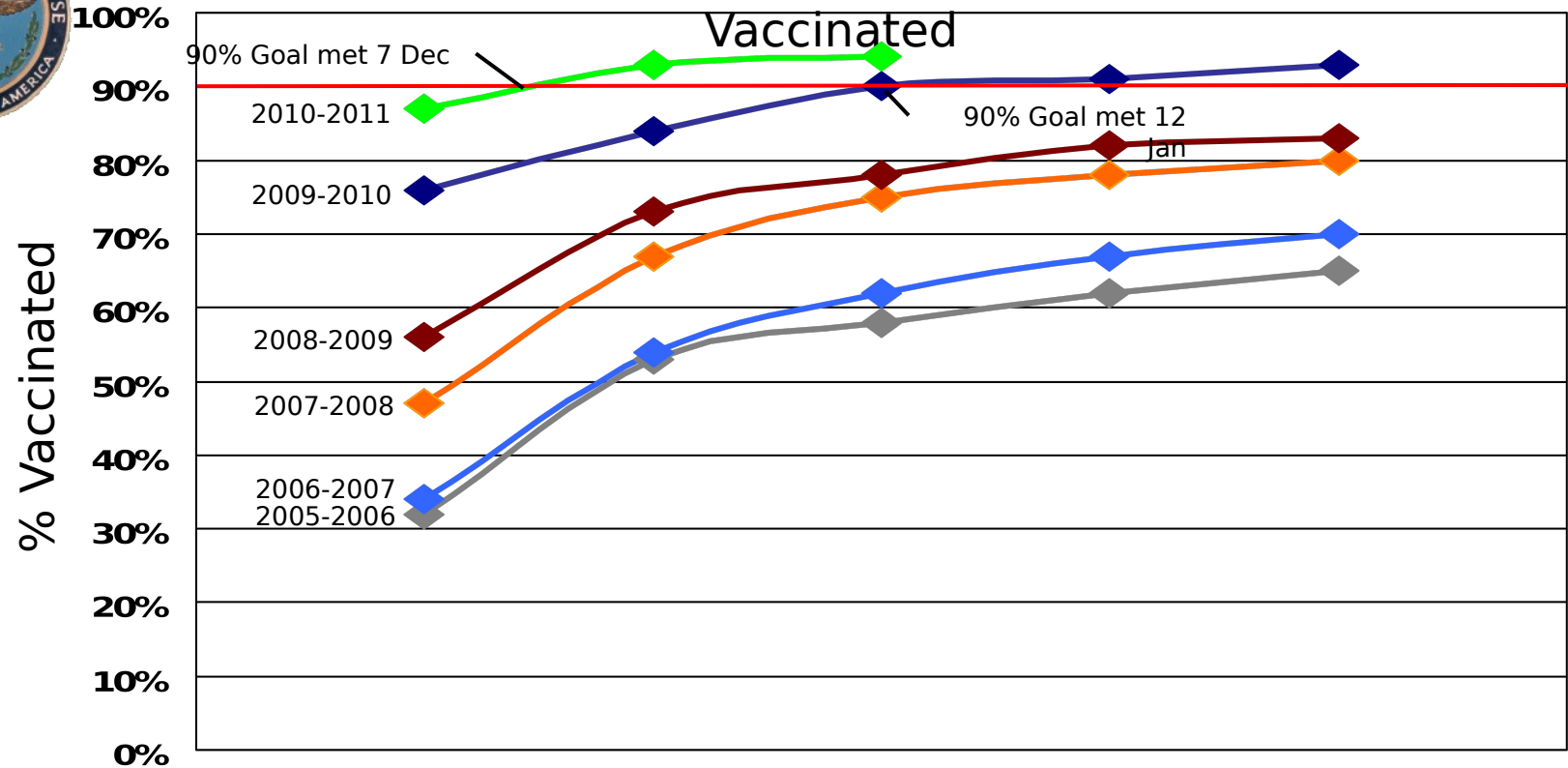


U.S. COAST GUARD



ACTIVE COMPONENT INFLUENZA IMMUNIZATION STATUS

Comparison of Seasonal Influenza Compliance - Percent



	Nov	Dec	Jan	Feb	Mar
2010-2011 Season	87%	93%	94%		
2009-2010 Season	76%	84%	90%	91%	93%
2008-2009 Season	56%	73%	78%	82%	83%
2007-2008 Season	47%	67%	75%	78%	80%
2006-2007 Season	34%	54%	62%	67%	70%
2005-2006 Season	32%	53%	58%	62%	65%

Data Source: Service IIS Nov 08 - Jan 11 and DEERS Nov 05 - Mar 08 end of month reports.



Operational Health Services Support

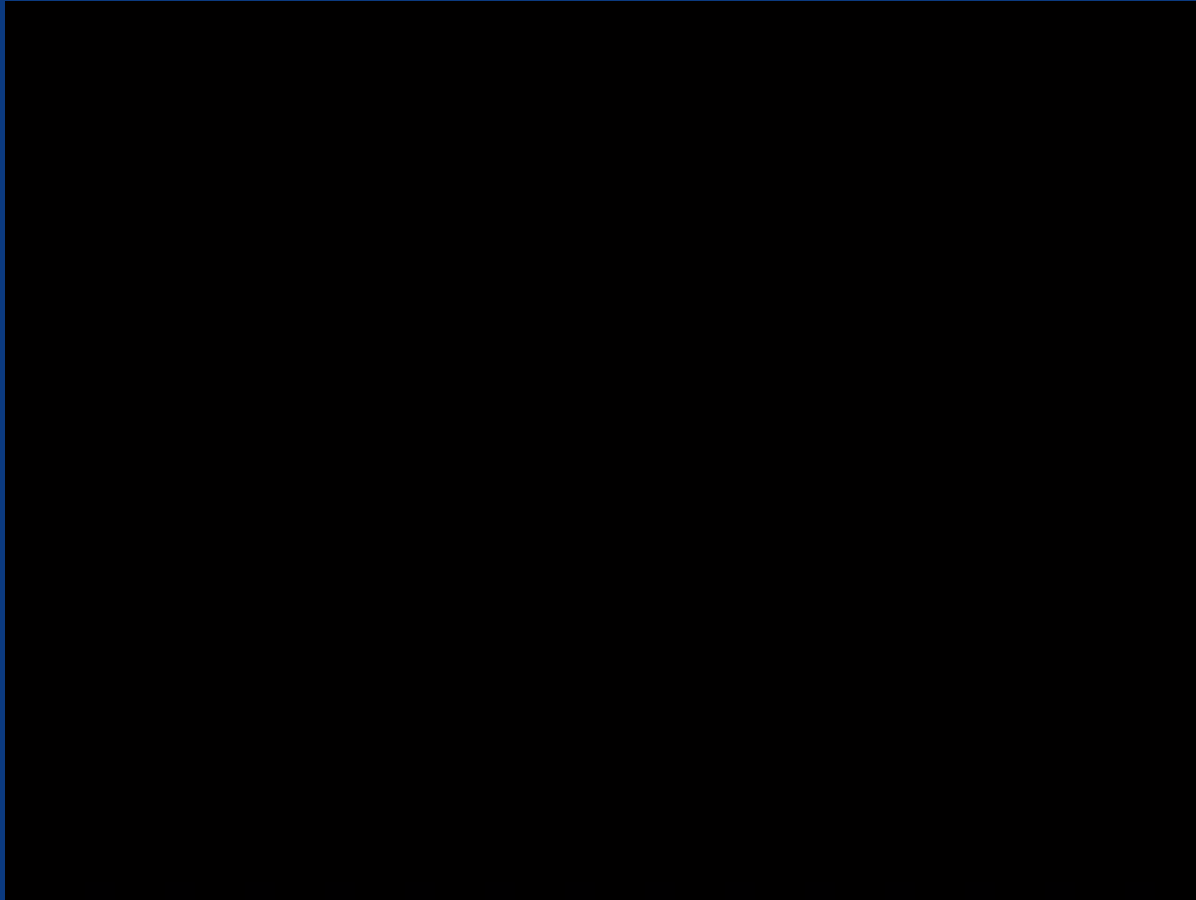
- Operational Support Platforms
 - 42 Clinics
 - 62 Sick Bays Afloat
 - 72 Sick Bays Ashore
- Aviation Medicine
 - Flight surgeons/ MEDEVACs
- Tactical Medicine
- Contingency Operations
- Fleet support
 - Rescue Swimmers / EMT-B



U.S. COAST GUARD



Coast Guard Missions



U.S. COAST GUARD



Coast Guard Missions

Maritime Safety

- Search and Rescue
- Ice Operations

Maritime Mobility

- Boating Safety
- Navigation
- Polar & Domestic

Ice Breaking

Humanitarian & Disaster Response

- Maritime Administration
- Maritime

Homeland & Maritime Security

- Port & Waterways Security

Protection of Natural Resources

Marine Pollution

Law and Treaty Enforcement

Prevention, Response and Enforcement

National Defense

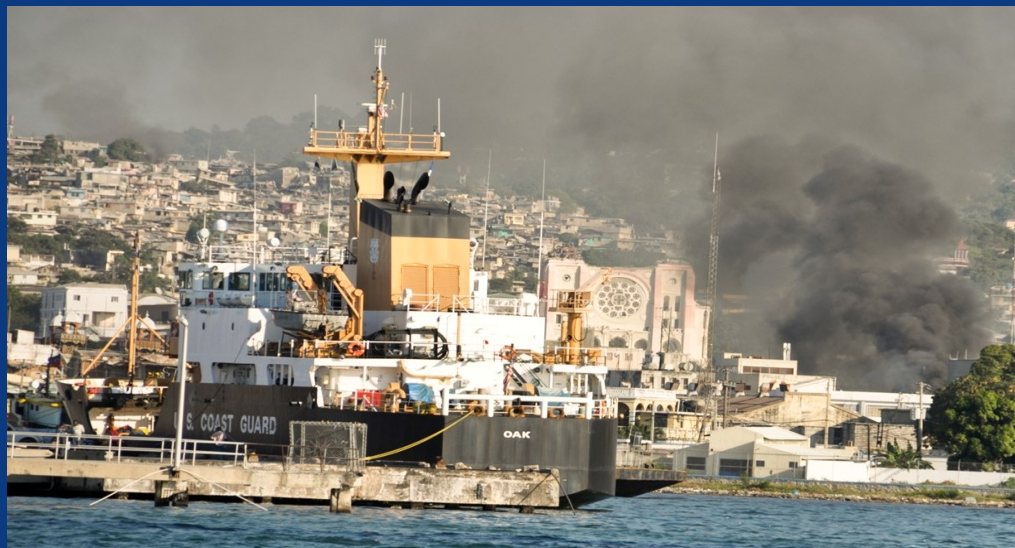
- Foreign Vessel Inspections



U.S. COAST GUARD



Haitian Operations



U.S. COAST GUARD



Haitian Operations

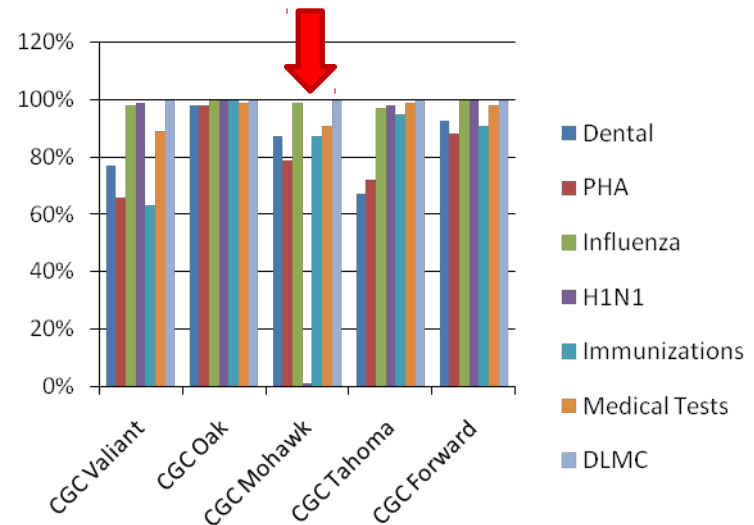
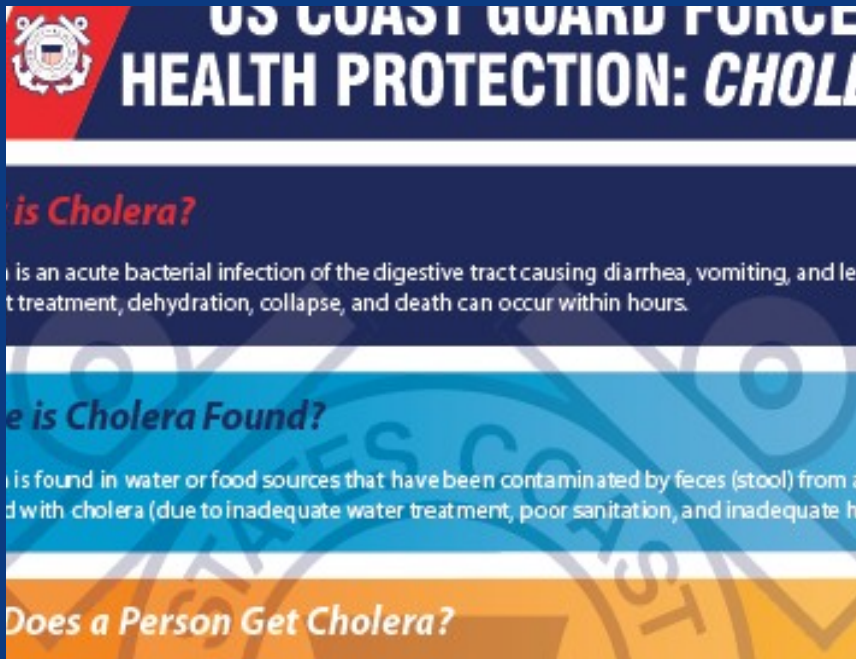


- Coast Guard was the first of the US Forces on-scene in Port Au Prince
- MEDEVAC > 120 critically injured
- Evacuated ~ 936 American citizens





Haitian Operations Medical Readiness



- Medical units on ground within ~24 hours
- 20 Flight Surgeons ready to deploy within ~6 hours



U.S. COAST GUARD



Deepwater Horizon (DWH)



U.S. COAST GUARD



Deepwater Horizon Unified Area Command



Overall Assets & Personnel:

- 48,000+ personnel
- 10,000 Vessels of Opportunity
- 125 aircraft
- 1000+ organizations



U.S. COAST GUARD



Deepwater Horizon Unified Area Command



Coast Guard Personnel:

- 4,500 Coast Guard personnel deployed (~10% of Coast Guard workforce)
- Assumed command & control immediately after the disaster





Deepwater Horizon Medical Readiness



U.S. COAST GUARD FORCE HEALTH PROTECTION

Health and safety of our Coast Guard responders is our primary concern. Coast Guard health and safety personnel are monitoring the environment and working diligently to minimize the exposure risks faced by oil spill responders.

BEFORE DEPLOYING TO THE DEEPWATER HORIZON OPERATION:

ALL PERSONNEL MUST:

- Complete a medical self risk evaluation
- Have up-to-date tetanus immunization (Td or Tdap)

ACTIVE DUTY AND SELECTED RESERVE MEMBERS MUST:

- Maintain medical readiness status of green

STRESS & FATIGUE ARE THE TWO BIGGEST HEALTH & SAFETY HAZARDS:

- Follow the worksite's recommended work/rest schedule
- Avoid direct sun exposure
- Get adequate sleep
- Use a buddy system at all times

WEATHERED CRUDE CONCERNS:

- The odors present during operations, tests on more than 15,000 air samples show that weathered crude has extremely low levels of Volatile Organic Compounds
- For more information on weathered crude, please see ALCOAST 341/10

WHILE DEPLOYED WHILE ON ASSIGNMENT YOU MUST:

- Report any injury to an on-site supervisor
- Get medical aid if necessary
- Complete a CA-1 or CA-2 form: <http://www.dol.gov/owgp/regs/compliance/ca-1.pdf>
- Contact your servicing Command Staff Advisor/Human Resources specialist to initiate your Compensation claim
- Complete the Deepwater Horizon Event Health-Related Inventory*

IF YOU HAVE ANY HEALTH CONCERNS PLEASE ENSURE THAT YOU:

- Notify your supervisor and site safety person
- Seek medical care preferably at a Coast Guard clinic and/or

Medical Readiness:

- Able to deploy Coast Guard personnel rapidly due to improved medical readiness & clear force health protection guidance



U.S. COAST GUARD



Deepwater Horizon Operations



**In situ
burns**



**Beach
cleanup**



U.S. COAST GUARD



Deepwater Horizon Operations



Dispersant Application



Decontamination Ops



Booming & Skimming Ops



Interagency Support



U.S. COAST GUARD



Interagency Support



- Tamiflu stockpile
- PPE Push Packs
- Vaccination – tiger teams immunized DHS personnel
 - Rabies
 - Typhoid
 - H1N1 Influenza



U.S. COAST GUARD



DoD Partnerships



- SMMAC / FHPC
- DHB / AFHSC
- JPMPG / MILVAX
- JOMMC / JMPC
- AMSWG / JAMPS
- RHRP / Fleet HRA
- MRRS / EDHA
- AERO / DRSi
- VLER / ICIB



U.S. COAST GUARD



Tactical Medicine

- Deployable Ops Group (DOG)
 - DOG Surgeon & Corpsmen
- Deployable Medical Support
 - Port Security Unit
 - Cutters / MSSTs
 - Patrol Boats
- Tactical Combat Casualty Care



U.S. COAST GUARD

• Self Aid & Buddy Aid

Medical Readiness Long Term Surveillance (DWH)



U.S. COAST GUARD




Medical Readiness Long Term Surveillance (DWH)



- A web-based survey administered to all 4,500 Coast Guard responders regarding:
 - Time & Site of Response
 - Mission(s) Performed
 - Exposures
 - Health Effects
- Integration with the Health Information System

United States Coast Guard
U.S. Department of Homeland Security



	All of the time	Most of the time	Sometimes	Rarely	Never
How often was any part of your body submersed in the spilled crude oil or oily water?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
How often did you swallow the spilled crude oil or oily water?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
How often did the spilled crude oil or oily water come in direct contact with your skin?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
How often did you inhale vapors from the crude oil or oily water?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
How often were you in the vicinity of crude oil burning?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Back Progress: Next

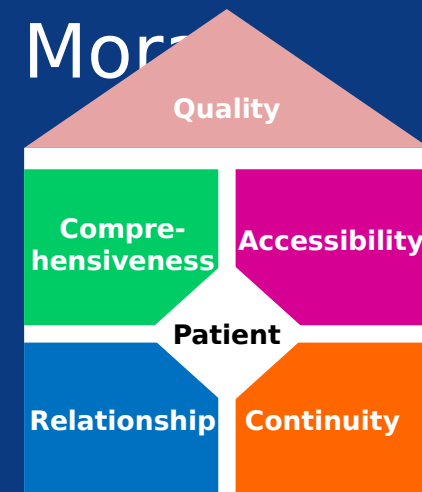


U.S. COAST GUARD



Medical Readiness & Patient Centered Medical Home

- Medical Home
 - Improve Population Health & Medical Readiness
 - Reduce Time Away from Work
 - Healthier Individuals – Improved Morale
 - Enhance Career Productivity
 - Decrease Disability
 - Support Mission Effectiveness





Medical Readiness - Electronic Health Record

Medical Information Suite

- Electronic Health Record
 - Dental Module
 - Behavioral Health Module
 - Occupational Health Module
 - Medical Readiness Reporting Module
- Single Sign-on & Context Management Interface
- VLER & NHIN Gateway
- Centralized Radiograph Storage and Retrieval
- Integrated Patient Satisfaction & Peer Review System
- Staff Satisfaction Survey
- Patient Health Portal (My Chart)



My Chart



U.S. COAST GUARD

Welcome,
Joe
Guardian

Log Out

My Medical Record

- Health Summary
- Download Summary
- Test Results
- Hospital Admissions
- Medications
- Allergies
- Immunizations
- Readiness / Preventive Care
- Medical History
- Current Health Issues
- Health Trends
- Clinic Calls
- Letters
- School Report
- Growth Charts
- History Questionnaire
- My Emergency Info

Message Center

- Inbox
- Sent Messages
- Get Medical Advice
- Ask Customer Service
- Request a Referral

You Might Want To...



Schedule your readiness/preventive care services. You are due for 3 readiness/preventive care services.



Send a message to
your doctor's office.



Schedule an
appointment.



View your health
summary.

Articles and Information for Your Health

Food Allergies

If you're allergic to peanuts, would it be OK if you took just one little bite of a delicious homemade brownie with crushed peanuts on top? Nope. If you have a food allergy, even a tiny bit of that food can make you sick. Lots of kids have food allergies - 2 million in the United States alone.

These foods cause the most food allergies:

[Full Story ...](#)

[Fit Families, Fit Kids](#)

© Epic 2010

My Chart



U.S. COAST GUARD

**Welcome,
Joe
Guardian****Log Out****My Medical Record**

Health Summary
Download Summary
Test Results
Hospital Admissions
Medications
Allergies
Immunizations
Readiness / Preventive Care
Medical History
Current Health Issues
Health Trends
Clinic Calls
Letters
School Report
Growth Charts
History Questionnaire
My Emergency Info

Message Center

Inbox
Sent Messages
Get Medical Advice
Ask Customer Service
Request a Referral



Readiness/Preventive Care



Preventive medicine plays an important part in your health and overall well being. The following procedures are recommended for people of your age, sex, and medical history.

To request an appointment for a procedure listed below, select a check box and click **Request Appointment**.

<u>Name</u>	<u>Due Date</u>	<u>Status</u>	<u>Last Done</u>
<input type="checkbox"/> Hepatitis B vaccine [more]			6/8/1983
<input type="checkbox"/> Hepatitis A vaccine [more]			6/8/1985
<input type="checkbox"/> MMR vaccine [more]			6/8/2001
<input type="checkbox"/> Annual Health Assessment [more]	5/20/2010	Overdue	5/20/2009
<input type="checkbox"/> Annual dental exam [more]	5/20/2010	Overdue	5/20/2009
<input type="checkbox"/> HIV screening every 24 months [more]	5/20/2010	Overdue	5/20/2008
<input type="checkbox"/> Tetanus Immunization [more]	12/10/2016		12/10/2007

Request Appointment

Select a readiness/preventive care procedure to request an appointment.

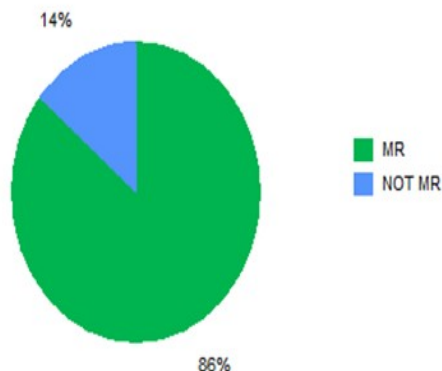
© Epic 2010

My Dashboard - Kodiak

? Actions

Base Medical Readiness

Show Table



Report completed on: Wed 12/8/2010 3:32 PM

Refresh

View Report

Links to Additional Reports

Interactive Dashboard

Report Listing

Recent Results

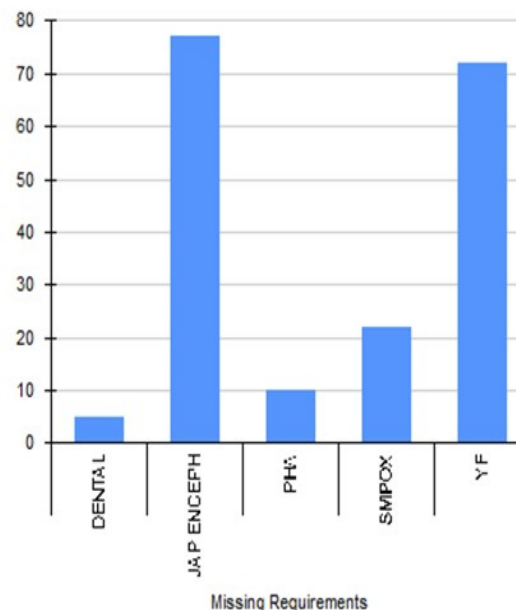
Report Name	Status
Kodiak Medical Readiness	Ready to view
Kodiak Medical Readiness Deficiencies by Cutter	Ready to view
Kodiak Medical Readiness Deficiencies	Viewed

My Favorites

Report Name	Status
Kodiak Medical Readiness	Ready to view
Kodiak Medical Readiness Deficiencies	Viewed
Kodiak Medical Readiness Deficiencies by Cutter	Ready to view

Breakdown on Missing Items

Show Table



Report completed on: Wed 12/8/2010 3:32 PM

Refresh

View Report

Missing Requirements by Unit/Cutter

Ship	# of Deficiencies
AIR STATION KODIAK	58
DENTAL	3
JAP ENCEPH	46
PHA	3
SMPOX	15
YF	43
ALEX HALEY	22

In Basket Glance

Type	Total	New
! Results	11 (5 !)	5 (1 !)
Patient Call	5	-
Rx Request	2	-
Transcriptions	5	-
Overdue Results	42	3
Cosign-Charts	2	-
Cosign-Orders	6 (1 !)	-
Hospital ADT	8	8
Verbal Order Cosign	6 (1 !)	-
Pt Entered Flowsheet	5 (4 !)	-
Rfl Notif Ltr	10	-

Refresh as of 06:10:46 PM




















Schedule Glance

SEEGER, MARTY

12/8/2010

Show Patient Names

Today

	Time	MRN	Type	Dept	Status
 	08:15 a - 08:30 a	28181	Office FM, VCC	Sch	
 	08:45 a - 09:00 a	28053	Office FM, VCC	Sch	
 	09:15 a - 09:30 a	24574	Office FM, VCC	Sch	
 	09:45 a - 10:00 a	27038	Office FM, VCC	Sch	
 	11:15 a - 11:30 a	27036	Office FM, VCC	Sch	
 	01:15 p - 01:30 p	26586	Office FM, VCC	Sch	
 	01:45 p - 02:00 p	24619	Office FM, VCC	Sch	
 	02:45 p - 03:00 p	28123	Office FM, VCC	Sch	
 	04:30 p - 04:45 p	27039	Office FM, VCC	Sch	
 	05:15 p - 05:30 p	24914	Office FM, VCC	Sch	

Refresh as of 06:10:46 PM

My Dashboard - Kodiak

? Actions

86%

Report completed on: Wed 12/8/2010 3:32 PM

Refresh

View Report

Links to Additional Reports

Interactive Dashboard

Report Listing

Recent Results

Report Name	Status
Kodiak Medical Readiness	Ready to view
Kodiak Medical Readiness Deficiencies by Cutter	Ready to view
Kodiak Medical Readiness Deficiencies	Viewed

My Favorites

Report Name	Status
Kodiak Medical Readiness	Ready to view
Kodiak Medical Readiness Deficiencies	Viewed
Kodiak Medical Readiness Deficiencies by Cutter	Ready to view
My patient dashboard	Ready to run
Summary: Adults with A1C>6.9	Ready to run
Adults w/elevated Cholesterol, not on Antihyperlipidemic	Ready to run
Patients on Statins with dx of DM, or Hyperlipid, or Heart Disease	Ready to run
Lead levels elevated, children < 17 y.o.	Ready to run
My Male Diabetics	Ready to run
DM pts with Ophthal Consult Order	Ready to run

Refresh



Report completed on: Wed 12/8/2010 3:32 PM

Refresh

View Report

Missing Requirements by Unit/Cutter

Ship	# of Deficiencies
AIR STATION KODIAK	58
DENTAL	3
JAP ENCEPH	46
PHA	3
SMPOX	15
YF	43
ALEX HALEY	22
DENTAL	2
JAP ENCEPH	18
PHA	4
SMPOX	2
YF	17
MUNRO	15
JAP ENCEPH	11
PHA	3
SMPOX	3
YF	11
SPAR	3
JAP ENCEPH	2
SMPOX	2
YF	1

Report completed on: Wed 12/8/2010 3:32 PM

Refresh

View Report

SEEGER, MARTY

12/8/2010

Show Patient Names

Today

	Time	MRN	Type	Dept	Status
	08:15 a - 08:30 a	28181	Office FM, VCC	Sch	
	08:45 a - 09:00 a	28053	Office FM, VCC	Sch	
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	01:15 p - 01:30 p	26586	Office FM, VCC	Sch	
	01:45 p - 02:00 p	24619	Office FM, VCC	Sch	
	02:45 p - 03:00 p	28123	Office FM, VCC	Sch	
	04:30 p - 04:45 p	27039	Office FM, VCC	Sch	
	05:15 p - 05:30 p	24914	Office FM, VCC	Sch	

Refresh

as of 06:10:46 PM



Dashboard Browser

? Close X



Coast Guard Medically Readiness Assessment

Unit Level:

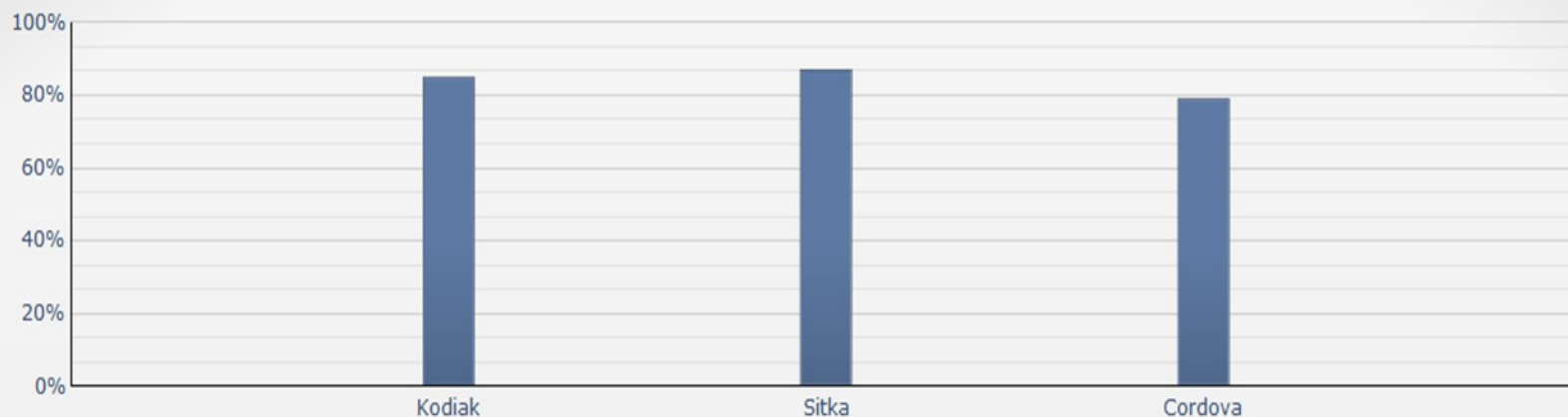
☐ Area☐ District☒ Sector☐ Base

Select Sector:

Sector Anchorage

Show Breakdown

Overview - Sector Anchorage



Percentage of soldiers ready in selected unit (Last 12 Months) - Sector Anchorage

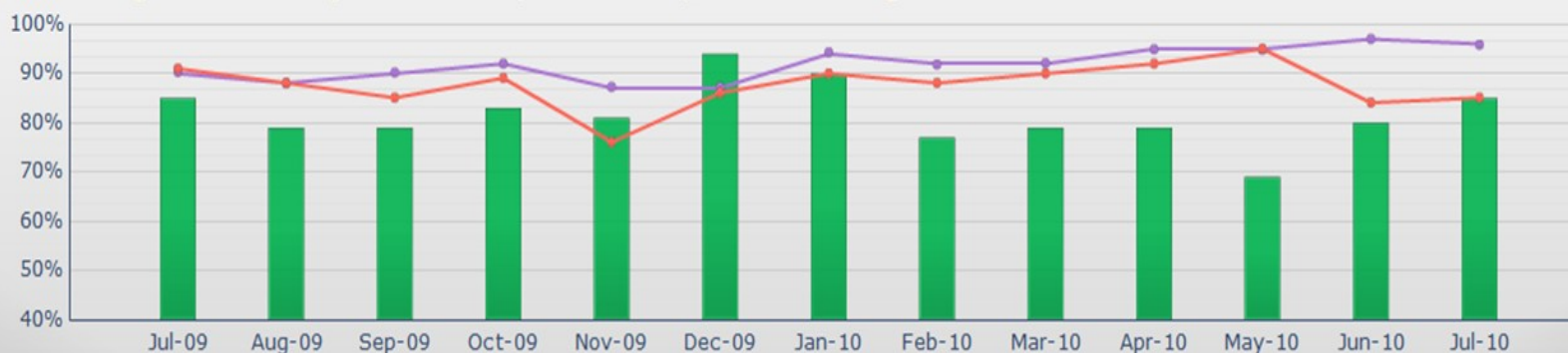


Chart Type:

☐ Column☐ Line☒ Mixed

Sector Anchorage



District 17



Pacific Area

© Epic 2010





Dashboard Browser

? Close X



Coast Guard Medically Readiness Assessment

Unit Level:

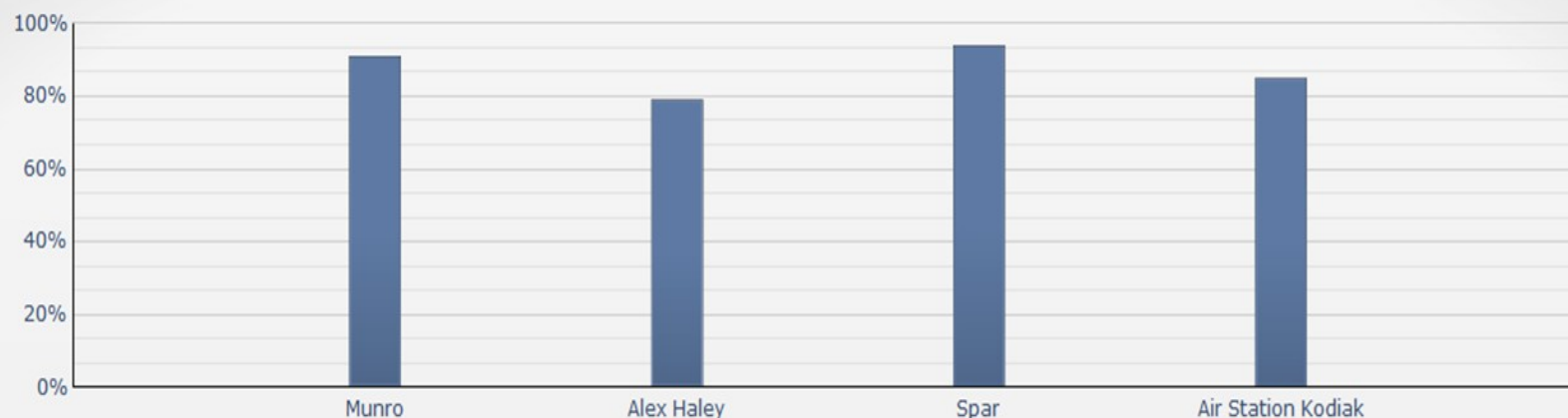
☐ Area☐ District☐ Sector☒ Base

Select Base:

Kodiak

Show Breakdown

Overview - Kodiak



Percentage of soldiers ready in selected unit (Last 12 Months) - Kodiak

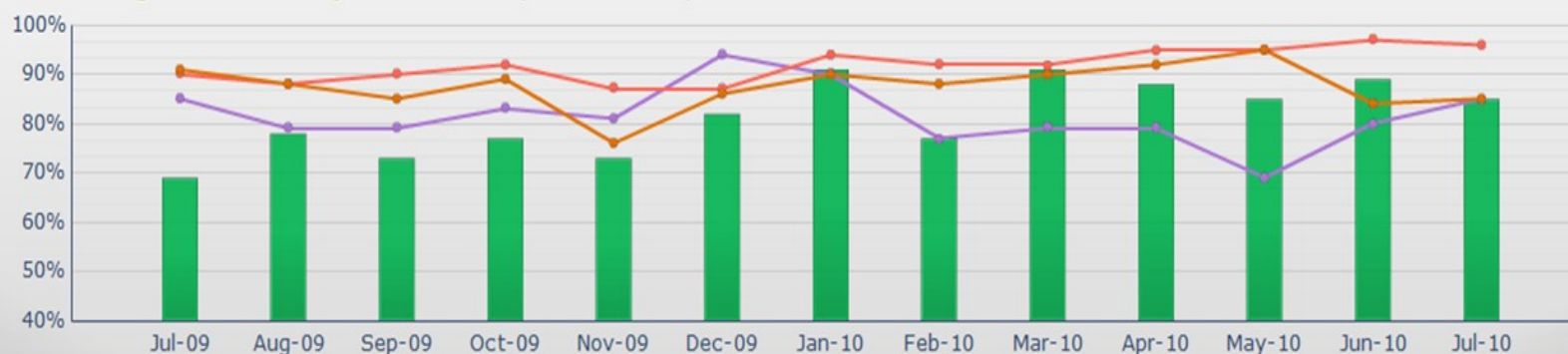


Chart Type:

☐ Column☐ Line☒ Mixed

Kodiak



Sector Anchorage



District 17



Pacific Area

© Epic 2010





Dashboard Browser

? Close X

Coast Guard Medically Readiness Assessment

Unit Level:

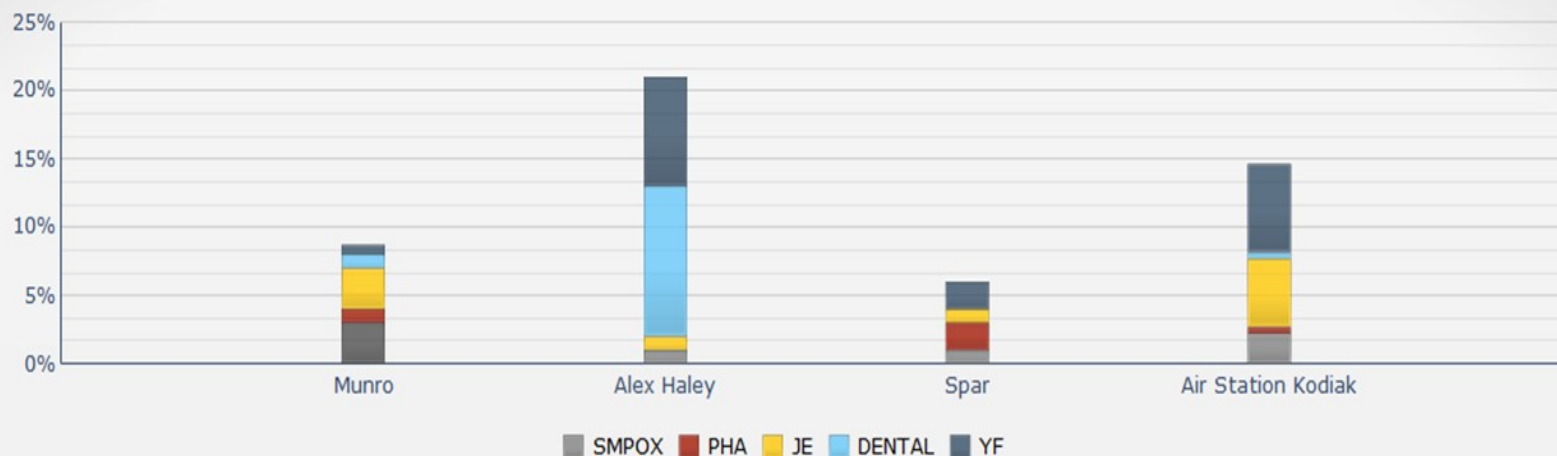
☐ Area☐ District☐ Sector☒ Base

Select Base:

Kodiak

Show Overview

Breakdown by category of medically non-ready personnel - Kodiak



Percentage of soldiers ready in selected unit (Last 12 Months) - Kodiak

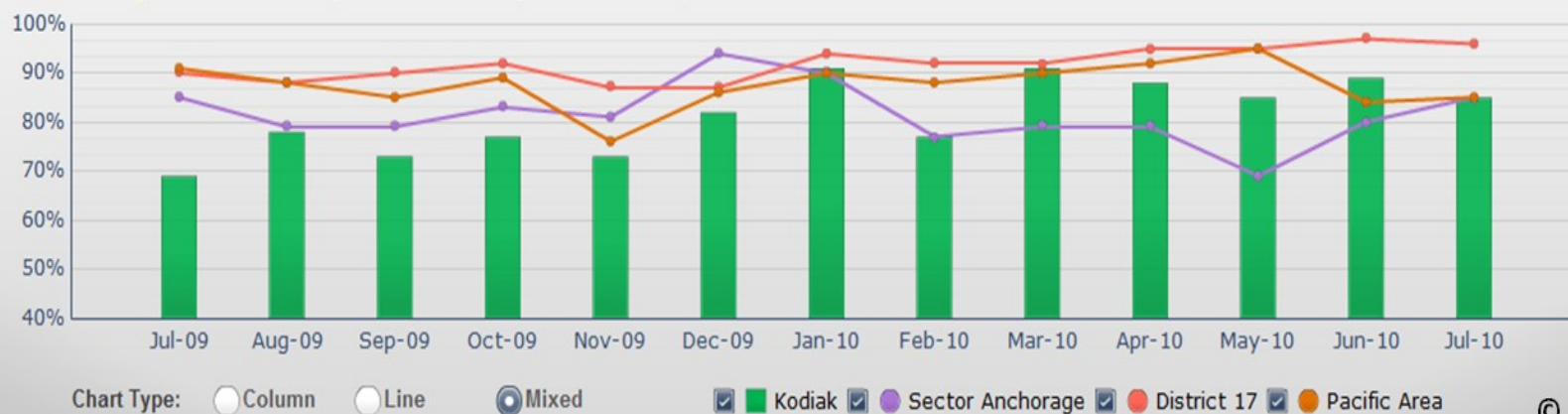


Chart Type:

☐ Column☐ Line☒ Mixed

Kodiak



Sector Anchorage



District 17



Pacific Area

© Epic 2010





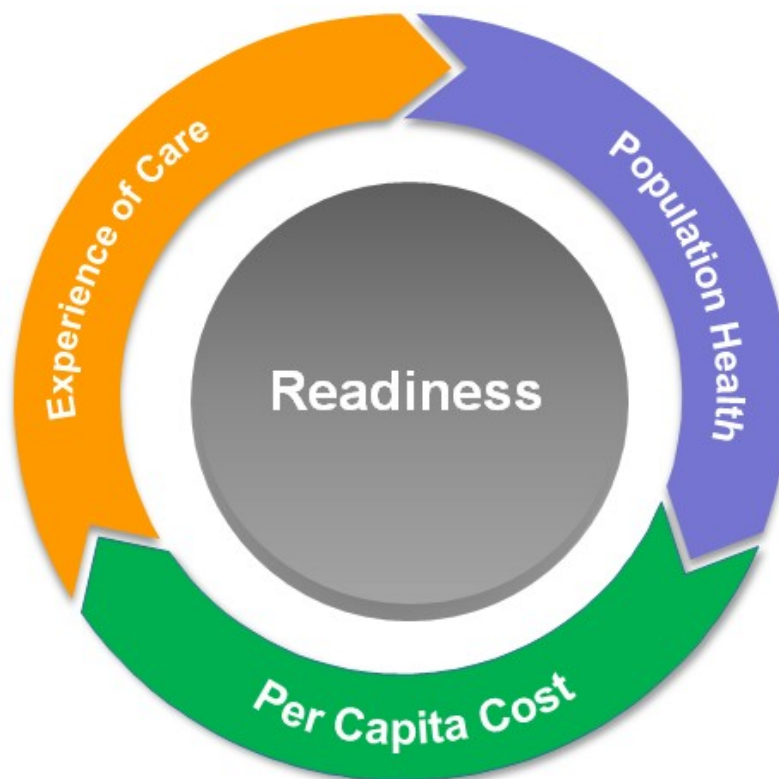
Medical Readiness - The Way Forward

- To ensure we maintain and improve Operational Support while sustaining the in-house health care side of medical readiness.
- To determine how to value Operational Support as a metric from a cost-efficiency perspective.





Readiness - the Core Mission





Semper Paratus

All Threats, All Hazards, Always Ready



U.S. COAST GUARD



Background Slides



U.S. COAST GUARD



Coast Guard Health Care System



U.S. COAST GUARD



Coast Guard Force

- Active Duty = 42,971
- Reserve = 8,109
- Civilians = 8,358
- Auxiliarists = 36,692



U.S. COAST GUARD



Coast Guard Force



Army
Navy
Marines
Air Force
Coast Guard



PHS Commissioned Corps



NOAA Commissioned Corps



U.S. COAST GUARD



Coast Guard Missions



Maritime Safety	<ul style="list-style-type: none">• Search and Rescue• Ice Operations• Marine Safety• Boating Safety
Homeland and Maritime Security	<ul style="list-style-type: none">• Port and Waterways Security• Drug Interdiction• Alien Migrant Interdiction• U.S. Exclusive Economic Zone and Living Marine Resources• Law and Treaty Enforcement
Protection of Natural Resources	<ul style="list-style-type: none">• Marine Pollution Education, Prevention, Response and Enforcement• National Response Center• Foreign Vessel Inspections• Living Marine Resources Protection• Marine and Environmental Science
Maritime Mobility	<ul style="list-style-type: none">• Aids to Navigation• Polar and Domestic Ice Breaking• Bridge Administration• Maritime Transportation (VTS)
National Defense	<ul style="list-style-type: none">• Special Forces



U.S. COAST GUARD



Operational Support

- Aviation support
 - Flight surgeons
 - MEDEVACs
- Fleet support
 - Rescue Swimmers
 - EMT-B

Air Crew Readiness –

		Flight Hours 30 Days	Flight Hours 90 Days	Day Hoist	Night Hoist	Day Rescue Swim	Night Rescue Swim
2004	Air Station	0.5	38.3	1,080	1,080	1,080	1,080
	Air Stations	0.5	38.3	1,080	1,080	1,080	1,080
2005	Air Station	0.8	38.1	973	973	973	973
	Air Stations	0.8	38.1	973	973	973	973
2006	Air Station	0.6	43.2	1,007	1,338	1,089	1,338
	Air Stations	0.6	43.2	1,007	1,338	1,089	1,338
2007	Air Station	0.4	39.9	950	NA	367	1,362
	Air Stations	0.4	39.9	950	NA	367	1,362
2008	Air Station	1.6	75.9	1,225	NA	NA	NA
	Air Stations	1.6	75.9	1,225	NA	NA	NA
2009	Air Station	1.7	128.4	NA	NA	NA	NA
	Air Stations	1.7	128.4	NA	NA	NA	NA
2010	Air Station	1.2	82.1	17	NA	NA	NA
	Air Stations	1.2	82.1	17	NA	NA	NA



U.S. COAST GUARD



Haitian Operation

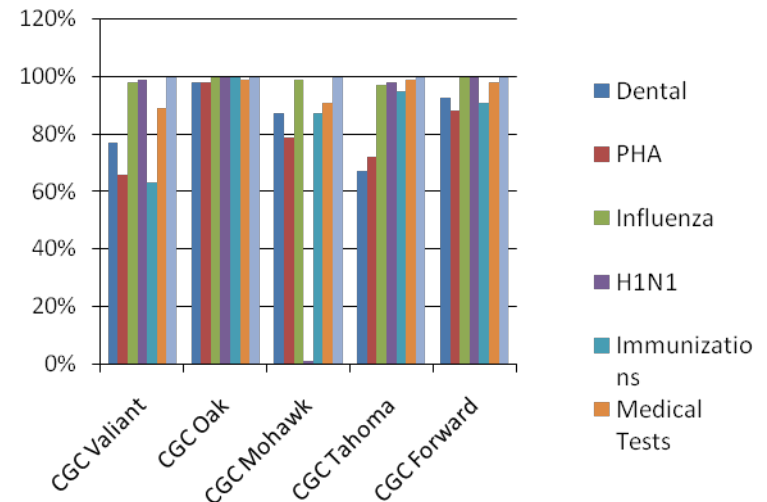
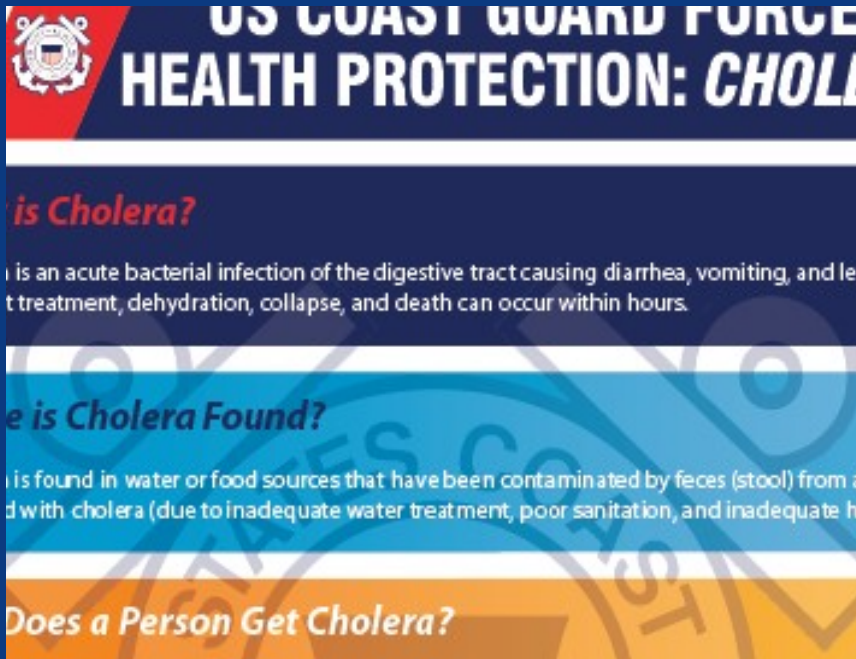
- Homeland Security Task Force South East – Coast Guard 7th District Commander has lead
- Supporting USSOUTHCOM JTF
- Operation Vigilant Sentry – Coast



U.S. COAST GUARD



Haitian Operation Medical Readiness



- Medical units on ground within ~24 hours
- 20 Flight Surgeons ready to deploy within ~6 hours





Interagency Support



U.S. COAST GUARD



DoD Partnerships

- Polar Medicine
 - Polar Class Ice Breakers
 - 1 Medical Officer and 1 IDHS
- Aviation Medicine
 - Fixed wing
 - No intrinsic medical support
 - Rotary wing
 - 1 rescue swimmer (EMT-B)
 - (MEDEVAC/SAR)



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NIH Gulf Study

Prospective cohort study of potential short- and long-term health effects associated with workers and volunteers (>55,000) involved in DWH clean-up activities



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Medical Readiness Long Term Surveillance (DWH)

- Environmental exposures
 - UV exposure
- Workplace injuries
 - Slips, trips, falls & MVAs
- Insect bites / stings
- Fire
- Excessive noise

